

Maryland Historical Trust

Maryland Inventory of Historic Properties Number: WA-I-344.

Name: CLOPPER RD. OVER ANTIETAM CREEK.

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridged received the following determination of eligibly.

MARYLAND HISTORICAL TRUST	
Eligibility Recommended <u> X </u>	Eligibility Not Recommended <u> </u>
Criteria: <u> A </u> <u> B </u> <u> C </u> <u> D </u>	Considerations: <u> A </u> <u> B </u> <u> C </u> <u> D </u> <u> E </u> <u> F </u> <u> G </u> <u>None</u>
Comments: <u>PREVIOUSLY DETERMINED ELIGIBLE. WASHINGTON</u> <u>COUNTY TO REFUSE.</u>	
Reviewer, OPS: <u>Anne E. Bruder</u>	Date: <u>3 April 2001</u>
Reviewer, NR Program: <u>Peter E. Kurtze</u>	Date: <u>3 April 2001</u>

MARYLAND INVENTORY OF HISTORIC BRIDGES
HISTORIC BRIDGE INVENTORY
MARYLAND STATE HIGHWAY ADMINISTRATION/
MARYLAND HISTORICAL TRUST

MHT No. WA-I-344

SHA Bridge No. W 2521 Bridge name Clopper Road over Antietam Creek (Clopper Road Bridge)

LOCATION:

Street/Road name and number Clopper Road

City/town Leitersburg Vicinity X

County Washington

This bridge projects over: Road Railway Water X Land

Ownership: State County X Municipal Other

HISTORIC STATUS:

Is the bridge located within a designated historic district? Yes No X

National Register-listed district National Register-determined-eligible district

Locally-designated district Other

Name of district

BRIDGE TYPE:

Timber Bridge :

Beam Bridge Truss -Covered Trestle Timber-And-Concrete

Stone Arch Bridge

Metal Truss Bridge

Movable Bridge :

Swing

Vertical Lift

Bascule Single Leaf

Retractable

Bascule Multiple Leaf

Pontoon

Metal Girder :

Rolled Girder

Plate Girder

Rolled Girder Concrete Encased

Plate Girder Concrete Encased

Metal Suspension

Metal Arch

Metal Cantilever

Concrete X:

Concrete Arch X Concrete Slab Concrete Beam Rigid Frame

Other Type Name

DESCRIPTION:Setting: Urban _____ Small town _____ Rural X**Describe Setting:**

Bridge W 2521 carries Clopper Road over Antietam Creek in Washington County. Clopper Road runs north-south and Antietam Creek flows southwest. The bridge is located in the vicinity of Leitersburg, and is surrounded by woods and a few scattered single-family homes.

Describe Superstructure and Substructure:

Bridge W 2521 is a single-span, 1-lane, concrete arch bridge. The bridge was originally built in 1908, and the concrete parapets were replaced with metal railings at an unknown date. The structure is 111 feet long and has a clear roadway width of 13 feet 2 inches; there are no sidewalks. The out-to-out width is 15 feet 6 inches. The superstructure consists of 1 arch that supports a concrete deck and metal rails. The arch spans 70 feet and is of closed spandrel arch design. The concrete deck has a bituminous wearing surface. The structure has metal-pipe railings and the north roadway approach has metal guardrails while the southern approach has wooden rails. An early inspection reported noted a date plaque on the parapet that stated that the bridge was built in 1908 by the Nelson Merydith Company of Chambersburg, Pennsylvania. The substructure consists of 2 concrete abutments. There are 4 flared concrete wingwalls. The bridge is posted for 10 tons at 15 miles per hour, and has a sufficiency rating of 14.2.

According to a 1995 inspection report, this structure was in poor condition with heavy deterioration of the substructure. The asphalt wearing surface has minor deterioration. Large cracks, unsound regions, deteriorated areas, and spalling exist in the concrete. The arches have extensive cracking and efflorescence. The abutments and wingwalls have large cracks and are spalling. Also, the metal railing has surface erosion and has been determined substandard.

Discuss Major Alterations:

There have been no major alterations to this structure.

HISTORY:WHEN was the bridge built: 1908This date is: Actual X

Estimated _____

Source of date: Plaque X Design plans _____ County bridge files/inspection form _____ Other (specify): _____**WHY was the bridge built?**

The bridge was constructed to provide a more efficient transportation network and increased load capacity.

WHO was the designer? Nelson Merydith Company**WHO was the builder?** Nelson Merydith Company**WHY was the bridge altered?**

The bridge was altered to correct functional or structural deficiencies

Was this bridge built as part of an organized bridge-building campaign?

There is no evidence that the bridge was built as part of an organized bridge building campaign.

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have National Register significance for its association with:

A - Events _____ B - Person _____

C - Engineering/architectural character X

This bridge was determined eligible by the Interagency Review Committee in February 1996.

Was the bridge constructed in response to significant events in Maryland or local history?

The advent of modern concrete technology fostered a renaissance of arch bridge construction in the United States. Reinforced concrete allowed the arch bridge to be constructed with much more ease than ever before and maintained the load-bearing capabilities of the form. As the structural advantages of reinforced concrete became apparent, the heavy, filled barrel of the arch was lightened into ribs. Spandrel walls were opened, to give a lighter appearance and to decrease dead load. This enabled the concrete arch to become flatter and multi-centered, with longer spans possible. Designers were no longer limited to the semicircular or segmental arch form of the stone arch bridge. The versatility of reinforced concrete permitted development of a variety of economical bridges for use on roads crossing small streams and rivers.

Maryland's roads and bridge improvement programs mirrored economic cycles. The first road improvement of the State Roads Commission was a 7-year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920-1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads that moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund (with an equal sum from the counties) the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had been inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930's. Most improvements to local roads waited until the years after World War I.

As the nation's automotive traffic increased in the early twentieth century, local road networks were consolidated, and state highway departments were formed to supervise the construction and improvement of state roads. With a diverse topographical domain encompassing numerous small and large crossings, Maryland engineers quickly recognized the need for expedient design and construction through the standardization of bridge designs.

The concept and practice of standardization was one of the most important developments in engineering of the twentieth century. In Maryland, as in the rest of the nation, the standardized concrete types became the predominant bridge types built. In the period 1911 to 1920 (the decade in which standardized plans were introduced), beams and slabs constituted 65 percent and arches 35 percent of the extant 29 bridges built in Maryland. In the following decade, 1921-1930, the beam (now the T-beam) and slab increased to 73 percent and the arch had declined to 27 percent of the 129 extant bridges; in the next decade (1931-1940), the beam and slab achieved 82 percent and arches had further declined, constituting only 18 percent of the total of extant bridges built on state-owned roads between 1931 and 1946.

Although beam and slab bridges became the utilitarian choice, it appears that the arch was selected when aesthetics as well as other site conditions were considered. The architectural treatment of extant arch bridges supports this assessment. Many of these bridges were multiple span structures with open spandrels or masonry facing. Another decorative feature of the concrete arch bridge was an open, balustrade-style parapet. Despite the popularity of ornamental arches and the increase in use of beam and slab bridges, examples of simpler, single and multiple span closed concrete arch bridges with solid parapets continued to be constructed throughout the early twentieth century.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

There is no evidence that the construction of this bridge had a significant impact on the growth and development of the area.

Is the bridge located in an area that may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

The bridge is located in an area that does not appear to be eligible for historic designation.

Is the bridge a significant example of its type?

The bridge is a significant example of its type, due to the early date of construction.

Does the bridge retain integrity of important elements described in Context Addendum?

The bridge retains the character-defining elements of its type, as defined by the Statewide Historic Bridge Context, including the closed spandrel walls, arch ribs, concrete abutments, and wingwalls.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer?

This bridge is a significant example of the work of the Nelson Merydith Company, of Chambersburg, Pennsylvania.

Should the bridge be given further study before an evaluation of its significance is made?

No further study of this bridge is required to evaluate its significance.

BIBLIOGRAPHY:

County inspection/bridge files _____ X _____ SHA inspection/bridge files _____

Other (list):

Johnson, Arthur Newhall

1899 The Present Condition of Maryland Highways. In *Report on the Highways of Maryland*. Maryland Geological Survey, The Johns Hopkins University Press, Baltimore.

P.A.C. Spero & Company and Louis Berger & Associates

1995 Historic Highway Bridges in Maryland: 1631-1960: Historic Context Report. Maryland State Highway Administration, Maryland State Department of Transportation, Baltimore, Maryland.

Tyrrell, H. Grattan

1909 *Concrete Bridges and Culverts for Both Railroads and Highways*. The Myron C. Clark Publishing Company, Chicago and New York.

SURVEYOR:

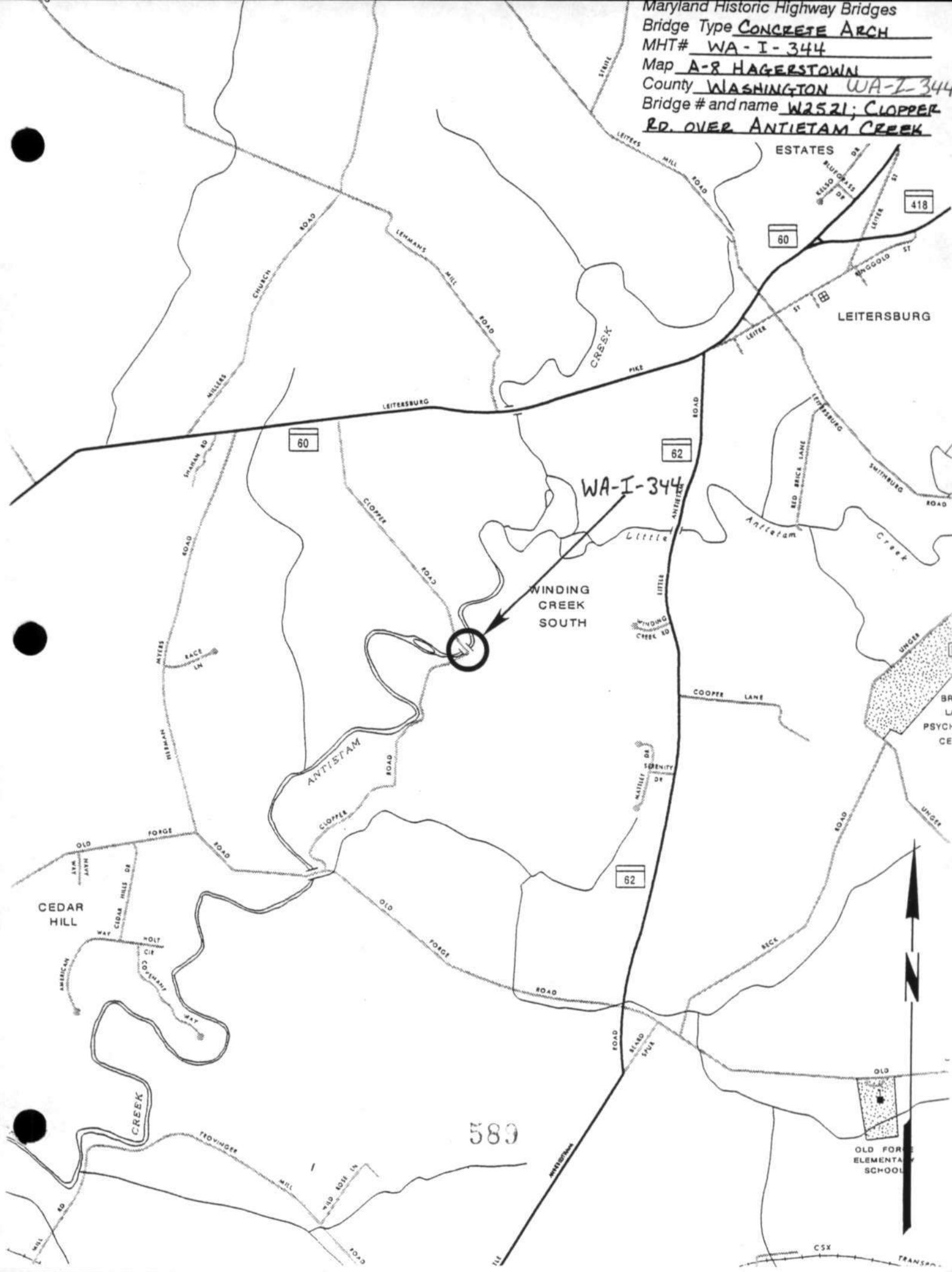
Date bridge recorded December 1997

Name of surveyor Wallace, Montgomery & Associates / P.A.C. Spero & Company

Organization/Address P.A.C. Spero & Co., 40 W. Chesapeake Avenue, Baltimore, MD 21204

Phone number (410) 296-1635 FAX number (410) 296-1670

Maryland Historic Highway Bridges
Bridge Type CONCRETE ARCH
MHT# WA-I-344
Map A-8 HAGERSTOWN
County WASHINGTON WA-I-344
Bridge # and name W2521; CLOPPER
RD. OVER ANTIETAM CREEK



589



WA-I-344

BR # 20W252110

OVER ANTELIAM CREEK

WASHINGTON CO., MD.

CHARLES ZIEGLER

2/22/95

S. H. A.

SOUTH APPROACH

1 CF 4



WA-I-344

BR #20W252110

OVER ANTIETAM CREEK

WASHINGTON CO., MD.

CHARLES ZIEGLER

2/22/95

S. H. A

WEST ELEVATION/DOWNSTREAM)

2 OF 4



WA-I-344

BR#20W252110

OVER ANTIETAM CREEK

WASHINGTON CO., MD

CHARLES ZIEGLER

2/22/95

S. H. A.

EAST ELEVATION (UPSTREAM)

3 OF 4



WA-I-344 BR #20W252110

OVER ANTIETAM CREEK
WASHINGTON CO., MD.

CHARLES ZIEGLER

2/22/95

S. H. A.

NORTH APPROACH

4 OF 4

INDEX TO PHOTOGRAPHS & SLIDES

Clopper Road Bridge Over Antietam Creek
Lietersburg Vicinity
Washington County
Maryland

MIHP No. WA-I-344

Photographer: Walter Smalling, Jr.

September 20, 2003

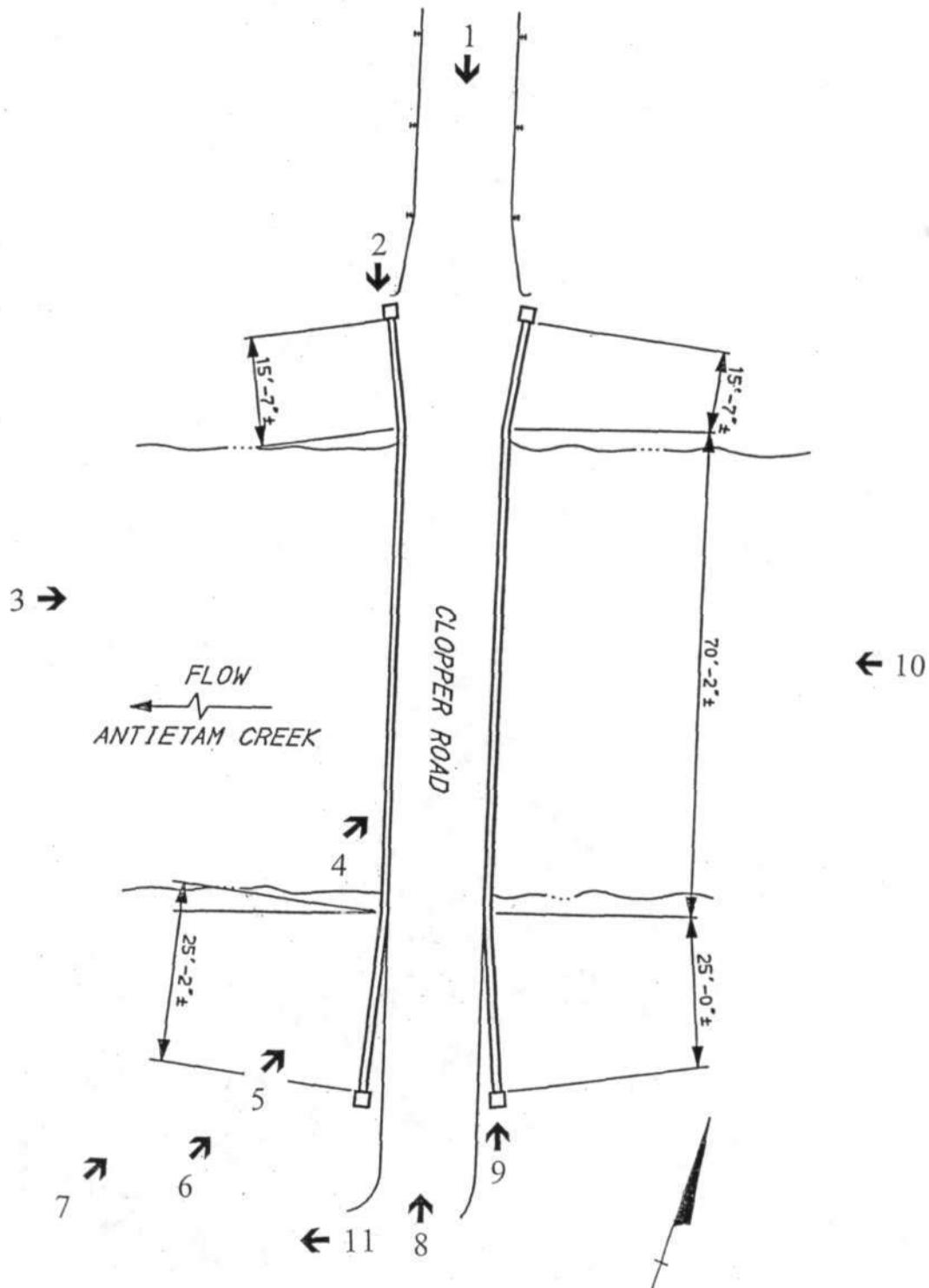
WA-I-344 -1	VIEW TO SOUTH/SOUTHEAST, ACROSS BRIDGE ROADWAY
WA-I-344 -2	VIEW OF MARKER, NORTHWEST CORNER OF BRIDGE
WA-I-344 -3	VIEW TO NORTHEAST
WA-I-344 -4	VIEW TO NORTH/NORTHEAST, UNDER BRIDGE
WA-I-344 -5	VIEW TO NORTH/NORTHEAST
WA-I-344 -6	VIEW TO NORTH/NORTHEAST, SOUTHWEST PIER OF BRIDGE
WA-I-344 -7	VIEW TO NORTH/NORTHEAST, FROM CLOPPER ROAD
WA-I-344 -8	VIEW TO NORTH/NORTHWEST, ACROSS BRIDGE ROADWAY
WA-I-344 -9	VIEW OF MARKER, SOUTHEAST CORNER OF BRIDGE
WA-I-344 -10	VIEW TO SOUTHWEST
WA-I-344 -11	VIEW TO SOUTHWEST, DOWN CLOPPER ROAD (Photograph only)

Prepared by: Robinson & Associates, Inc.
1909 Q Street, NW
Washington, D.C. 20009

KEY TO PHOTOGRAPHS & SLIDES

Clopper Road Bridge Over Antietam Creek
Lietersburg Vicinity
Washington County
Maryland

MIHP No. WA-I-344





#WA-I-341

Clopper Rd Bridge over Antietam Creek

Washington County, MD

Walter Shalling, Jr.

Sept. 20, 2003

MD SHPO

View to S/SE, Across Bridge Roadway

1/11

BUILT BY

NELSON MERYDITH CO

CHAMBERG PCH PA

1908

#WA-I-344

Clopper Road Bridge Over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

Marker, NW Corner of Bridge

2/11



WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

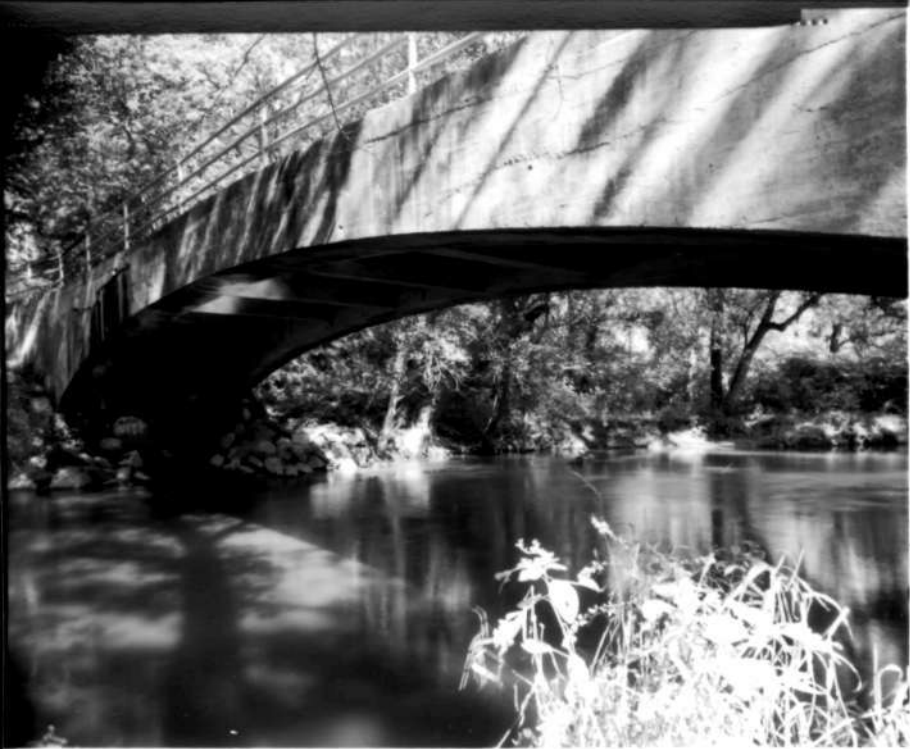
Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

View to NE

3/11



#WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

View to N/NE, Under Bridge

4/11



#WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

View to NE

5/11



WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

View to NE (SW pier of bridge)

6/11



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Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

View to N/NE from Clopper Road

7/11



WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

View to N/NW, Across Bridge Roadway

8/11

A. ROHRER

O. F. NICH

S. S. ZELLER

COMMR

M. HURLEY

VICTOR CUSHWA

E. WACAMAN

CLERK

E. PIPER

CO. SURVEYOR

R. HAGNER

ATTY

#WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept 20, 2003

MD SHPD

Marker, SE Corner of Bridge

9/11



WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPO

View to SW

10/11



WA-I-344

Clopper Road Bridge over Antietam Creek

Washington County, MD

Walter Smalling, Jr.

Sept. 20, 2003

MD SHPo

View to SW, Down Clopper Road

11/11

INDIVIDUAL PROPERTY/DISTRICT
MARYLAND HISTORICAL TRUST
INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: Clopper Road Bridge over Antietam Creek Survey Number: WA-I-344

Project: Bridge Replacement (Bridge # W 2521) Agency: FHWA/WA County DPW

Site visit by MHT Staff: X no yes Name Date

Eligibility recommended X Eligibility not recommended

Criteria: X A B X C D Considerations: A B C D E F G
 None

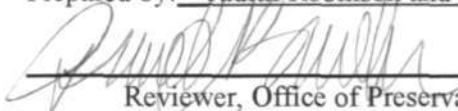
Justification for decision: (Use continuation sheet if necessary and attach map)

The Clopper Road over Antietam Creek Bridge near Leitersburg, Washington County, Maryland is a 1908 reinforced concrete arch bridge. It was constructed by the Nelson Merydith Company of Pittsburgh, Pennsylvania and is one of three concrete arch bridges by Nelson Merydith in Washington County. The bridge is a one lane, single span bridge which has a 13'-2" clear roadway with no sidewalks. There are two plaques in the endwalls of the bridge which identify the County Commissioners and the engineering company at the time of the original construction. The bridge does not appear to have been altered in the last ninety years. However, recent testing has demonstrated that the concrete is beginning to fail and Washington County wants to replace the bridge.

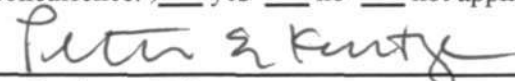
The bridge has been determined to be eligible for the National Register by the Interagency Historic Bridge Committee as well as by the Trust individually. The bridge is eligible under Criterion A, Events -- Transportation, as an example of expanding road system in the early twentieth century, and under Criterion C, Engineering, as an example of reinforced concrete construction. Although Nelson Merydith built several bridges, little is known about the firm or individuals who worked for the company, and therefore the bridge is not eligible under Criterion B. The bridge is also potentially eligible under Criterion D, and a Phase I archeological survey has been requested..

Documentation on the property/district is presented in: Project Review and Compliance Files and Inventory Books

Prepared by: Judith Robinson and Associates

 8/17/98
Reviewer, Office of Preservation Services Date

NR program concurrence: X yes no not applicable

 8/17/98
Reviewer, NR program Date



MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT**I. Geographic Region:**

- ☐ Eastern Shore (all Eastern Shore counties, and Cecil)
☐ Western Shore (Anne Arundel, Calvert, Charles, Prince George's and St. Mary's)
☐ Piedmont (Baltimore City, Baltimore, Carroll, Frederick, Harford, Howard, Montgomery)
☒ Western Maryland (Allegany, Garrett and Washington)

II. Chronological/Developmental Periods:

- ☐ Paleo-Indian 10000-7500 B.C.
☐ Early Archaic 7500-6000 B.C.
☐ Middle Archaic 6000-4000 B.C.
☐ Late Archaic 4000-2000 B.C.
☐ Early Woodland 2000-500 B.C.
☐ Middle Woodland 500 B.C. - A.D. 900
☐ Late Woodland/Archaic A.D. 900-1600
☐ Contact and Settlement A.D. 1570-1750
☐ Rural Agrarian Intensification A.D. 1680-1815
☐ Agricultural-Industrial Transition A.D. 1815-1870
☒ Industrial/Urban Dominance A.D. 1870-1930
☐ Modern Period A.D. 1930-Present
☐ Unknown Period (☐ prehistoric ☐ historic)

III. Prehistoric Period Themes:

- ☐ Subsistence
☐ Settlement

☐ Political
☐ Demographic
☐ Religion
☐ Technology
☐ Environmental Adaptation

IV. Historic Period Themes:

- ☐ Agriculture
☒ Architecture, Landscape Architecture, and Community Planning
☐ Economic (Commercial and Industrial)
☐ Government/Law
☐ Military
☐ Religion
☐ Social/Educational/Cultural
☒ Transportation

V. Resource Type:

Category: Structure
Historic Environment: Rural
Historic Function(s) and Use(s): Bridge -- transportation -- creek crossing
Known Design Source: Nelson Merydith

**AMENDMENT TO MARYLAND HISTORICAL TRUST
MARYLAND INVENTORY OF HISTORIC PROPERTIES
STATE HISTORIC SITES INVENTORY FORM
AND DETERMINATION OF ELIGIBILITY REPORT
Clopper Road Bridge over Antietam Creek
Vicinity of Leitersburg, Washington County, Maryland**

WA-I-344

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ADMINISTRATIVE/EXECUTIVE SUMMARY

In the fall of 1997, the Washington County, Maryland, Engineering Department, in compliance with the federally mandated Bridge Inspection Program, performed a visual inspection of the Clopper Road Bridge over Antietam Creek. It was determined at this time that the bridge was in poor condition and needed to be replaced. As this project is receiving funding through the Federal Bridge Replacement and Rehabilitation Program under the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 (as amended), it is subject to review under Section 106 of the National Historic Preservation Act of 1966 (as amended). In October 1997, Robinson & Associates, Inc., a consulting firm specializing in architectural history and historic preservation, was retained by transportation engineers Rummel, Klepper & Kahl, LLP, to guide the Section 106 review of this project.

This report presents an amendment to the original Maryland Historical Trust (MHT) survey form for the Clopper Road Bridge (prepared in May 1975), as well as an evaluation of the bridge's eligibility for listing in the Maryland Inventory of Historic Properties and the National Register of Historic Places.

METHODOLOGY

A site visit was conducted by Robinson & Associates on March 25, 1998, at which time a windshield survey of the project area was made, and photographs were taken of the bridge and the surrounding properties as viewed from the public right-of-way on Clopper Road.

In order to fully evaluate the significance and condition of the Clopper Road Bridge, copies of all relevant existing documentation were collected. These included the MHT survey forms for the Clopper Road Bridge and three other concrete arch bridges constructed in Washington County, Maryland, by the Nelson Merydith Company (prepared in 1975 and 1978), the Maryland Inventory of Historic Bridges survey forms for the three extant Nelson Merydith Company bridges (prepared in December 1997), the two most recent inspection reports for the Clopper Road Bridge (dating to 1995 and 1997), and the Historic Context Report for Historic Highway Bridges in Maryland between 1631 and 1960. In addition, research was conducted at the National Register of Historic Places to determine if any other bridges built by the Nelson Merydith Company had been listed or determined eligible for listing.

DESCRIPTION OF THE CLOPPER ROAD BRIDGE

The Clopper Road Bridge, a single-span, one-lane, concrete arch bridge, is located in the vicinity of Leitersburg, Maryland. The bridge carries Clopper Road, which runs north-south, over Antietam Creek, which flows southwest. The bridge's general setting is a wooded valley containing a number of early twentieth-century farmsteads and also more recently constructed single-family homes.

**AMENDMENT TO MARYLAND HISTORICAL TRUST
MARYLAND INVENTORY OF HISTORIC PROPERTIES
STATE HISTORIC SITES INVENTORY FORM
AND DETERMINATION OF ELIGIBILITY REPORT
Clopper Road Bridge over Antietam Creek
Vicinity of Leitersburg, Washington County, Maryland**

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Also known as Bridge Number W2521, the Clopper Road Bridge has been owned by Washington County since its construction in 1908. The bridge has a clear roadway width of 13 feet 2 inches and has no sidewalks. The superstructure of the bridge consists of a single, 70-foot span. The primary structural members are two steel-reinforced, cast-in-place, concrete arch girders with floor beams, which support a concrete deck with a bituminous wearing surface and metal-pipe railings. The north roadway approach to the bridge has metal guardrails, while the southern roadway approach has no guardrails. The bridge's substructure consists of two concrete abutments, with two flared concrete wingwalls per abutment.

The concrete endposts located at the Clopper Road Bridge's southern approach feature two identification plaques. The plaque on the southwest endpost indicates that the bridge was constructed by the Nelson Merydith Company of Chambersburg and Pittsburgh, Pennsylvania, in 1908. The plaque on the southeast endpost lists the Washington County Commissioners, Clerk, Surveyor, and Attorney who were likely instrumental in the bridge's construction.

Generally, it appears that the bridge has not been greatly altered since its construction. The only major alteration took place at an unknown date, when the bridge's original concrete parapets were replaced with metal railings. The four remaining concrete endposts at the two approaches to the bridge, one on each side, are not adjacent to the structure, but rather are located approximately 15 feet from the structure. In addition, numerous repairs have been made to the concrete arch girders and abutments over the years. Drawings from a 1980 repair and restoration of the Clopper Road Bridge by the Hagerstown, Maryland engineering firm of Oliver-Crump & Associates, Inc., indicate that new metal railings were installed and painted and that a great deal of concrete repair work was performed at this time.

SIGNIFICANCE OF THE CLOPPER ROAD BRIDGE

The Clopper Road Bridge over Antietam Creek is one of three extant concrete arch bridges that were constructed in Washington County in the first decade of the twentieth century by the Nelson Merydith Company, of Chambersburg and Pittsburgh, Pennsylvania. For an unknown period of time prior to 1900, the firm acted as agents for the Pittsburg (sic) Bridge Company, an important manufacturer of metal truss bridges located in Pittsburgh, Pennsylvania. The Pittsburg Bridge Company was established in 1878, incorporated in 1881, and in 1900 was absorbed by the American Bridge Company, a massive bridge building concern resulting from the consolidation of 28 independent bridge companies by U.S. Steel magnate and financier J.P. Morgan.¹ It appears that after this consolidation, the Nelson Merydith Company began to operate their own series of independent bridge companies, including the Nelson Bridge Company, the Nelson Construction Company, Nelson and Buchanan, and Gilbert & Nelson.

¹Maryland State Highway Administration and Maryland State Department of Transportation, "Historic Highway Bridges in Maryland, 1631-1960: Historic Context Report," Prepared by P.A.C Spero & Company and Louis Berger & Associates, July 1995, Revised October 1995, pp. B-1, B-6, B-8.

**AMENDMENT TO MARYLAND HISTORICAL TRUST
MARYLAND INVENTORY OF HISTORIC PROPERTIES
STATE HISTORIC SITES INVENTORY FORM
AND DETERMINATION OF ELIGIBILITY REPORT**

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**Clopper Road Bridge over Antietam Creek
Vicinity of Leitersburg, Washington County, Maryland**

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It is fairly easy to attribute and date the Nelson Merydith Company's surviving concrete arch bridges in Maryland, as they contain plaques that identify the construction company and the date of completion. This company is known to have constructed four concrete arch bridges in Washington County between 1906 and 1909, of which three survive today. The earliest attributed bridge, the Barnes Road Bridge over Beaver Creek (WA-II-128) in the vicinity of Boonsboro, Maryland, was completed in 1906. Constructed of reinforced and poured concrete, the bridge is 11 feet wide and spans a distance of 50 feet. The bridge's single, broad, segmental arch springs from abutments with slightly flared ends, and the walls rise to a peak at the arch's center. The second bridge, which carries Maryland Route 56 over the Little Conococheague Creek (WA-V-063) southeast of Clear Spring, Maryland, was constructed in 1907, and also consists of a single broad arch. The third bridge, the Clopper Road Bridge, was completed in 1908. These bridges were recently surveyed as part of the Maryland Inventory of Historic Bridges. All three bridges were determined eligible for listing in the National Register by the Interagency Bridge Committee on February 26, 1996, due to their early construction date and use of concrete.

A fourth bridge, the Toms Road Bridge (WA-II-176) over Beaver Creek in the vicinity of Boonsboro, was completed in 1909, and no longer survives. It was demolished as part of a bridge replacement project in 1985. The 40-foot long, single-lane bridge consisted of a single, broad, segmental arch with concrete parapets extending several inches above the surface of the road, and a metal railing with square concrete endposts.

The Nelson Merydith Company also built steel bridges in Washington County during the first decade of the twentieth century, as well as at least two bridges in Pennsylvania: a concrete arch bridge in Metal Township, Franklin County dating to 1907, and a metal truss bridge in Cumberland Township, Adams County dating to 1894. These two bridges were listed in the National Register of Historic Places in 1988 as part of a multiple property documentation for highway bridges owned by the Commonwealth of Pennsylvania, Department of Transportation.²

²National Register of Historic Places Inventory-Nomination Form, "Highway Bridges Owned by the Commonwealth of Pennsylvania, Department of Transportation," Prepared by Paula A. C. Spero, August 25, 1986.

AMENDMENT TO MARYLAND HISTORICAL TRUST
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EVALUATION OF INDIVIDUAL NATIONAL REGISTER ELIGIBILITY

As part of Robinson & Associates' work on this project, the Clopper Road Bridge was evaluated under National Register Criteria A, B, and C at the local, state, and national levels of significance. Since no archaeological work was included in this phase of the project, these structures have not been evaluated for archaeological significance under Criterion D. The relevant criteria, as listed in *National Register Bulletin 16* (United States Department of the Interior, National Park Service, Interagency Resources Division), read as follows:

The quality of **significance** in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

- A. That are associated with events that have made a significant contribution to the broad patterns of our history; or**
- B. that are associated with the lives of persons significant in our past; or**
- C. that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.**

The National Register eligibility of the Clopper Road Bridge over Antietam Creek has been previously evaluated twice in the past several years. The bridge was determined eligible for listing in the National Register by the Interagency Bridge Committee on February 26, 1996.³ It was also determined eligible for listing in the National Register when it was surveyed as part of the Maryland Inventory of Historic Bridges in 1997.⁴

Robinson & Associates concurs that the Clopper Road Bridge appears to be eligible for listing in the National Register of Historic Places under Criterion C, as a very early representative example of reinforced concrete construction. Completed in 1908, it is one of three surviving concrete arch bridges constructed in Washington County in the first decade of the twentieth century by the Nelson Merydith

³Information taken from conversation with Cynthia Simpson, Deputy Division Chief, Project Planning Division, State Highway Administration, Maryland Department of Transportation, November 10, 1997.

⁴Maryland Historical Trust and Maryland State Highway Administration, "Maryland Inventory of Historic Bridges, Historic Bridge Inventory Form, Clopper Road Bridge" (WA-I-344), Prepared by Wallace, Montgomery & Associates and P.A.C. Spero & Company, December 1997.

AMENDMENT TO MARYLAND HISTORICAL TRUST
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Vicinity of Leitersburg, Washington County, Maryland

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Company of Pennsylvania. Reinforced concrete bridges such as these are generally associated with the state's expanding transportation system at the close of the nineteenth and beginning of the twentieth centuries. This new reinforced concrete technology was introduced to the state of Maryland between 1890 and 1910, and the concrete arch bridges constructed during this period closely resemble earlier stone arch bridges built throughout Washington County. The stone arch form later constructed in concrete shows that while bridge builders were pleased with the success of arch bridges, they were not afraid to construct the same form in a new and improved material.

The Clopper Road Bridge is not located in a historic district. The closest officially designated historic resources are in the Old Forge Farm Historic District (WA-I-054), located approximately one mile away traveling south from the bridge on Clopper Road. The Old Forge Farm is a county designated historic district, and was also listed in the National Register of Historic Places in 1979.⁵

INTEGRITY

An examination of the seven aspects associated with integrity reveals that the Clopper Road Bridge retains a high degree of integrity despite its age and condition (See "Current Condition" below). The bridge has remained in its original **location** since its completion in 1908. The **design** of the bridge has not been significantly impacted over the years; the only known alterations to the structure are the replacement of the majority of the concrete parapets with metal railings, and unsuccessful repairs to the concrete. The **setting** of the bridge has changed somewhat since the first decade of the twentieth century, mainly with the recent construction of single-family homes on smaller lots near the bridge within the past 25 years. However, the valley in which the bridge is located remains rural in character, and the presence of several farmsteads attests to the area's continuous agricultural character. The **materials** used to construct the bridge have also not been greatly altered, although damage to the original concrete has repeatedly been repaired with modern concrete. The original **workmanship** of the bridge is still evident, regardless of the altered railings and the repaired concrete. Finally, the original **feeling** and **association** of the bridge remain; it still conveys its function as an aid to transportation in a fairly rural area.

CURRENT CONDITION

The Clopper Road Bridge is in a deteriorated condition, which is documented in the two most recent inspection reports. The 1995 inspection report noted concrete damage, including a 3/8-inch wide, 12-foot long crack in the inboard face of the downstream arch; extensive cracks containing rust staining,

⁵Information taken from conversation with Stephen T. Goodrich, AICP, Chief Senior Planner, Washington County, Maryland, Department of Planning and Community Development, March 30, 1998.

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**Clopper Road Bridge over Antietam Creek
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efflorescence, and water seepage on the outboard faces of both arch girders; deterioration in the west end of the downstream arch; cracks, unsound areas, and spalling in the concrete in the interface of the abutments and wingwalls with the arch; cracks and spalling in the bridge's concrete curb; and deterioration in the bridge's asphalt concrete overlay and both approaches. The existing pipe railing was determined to be substandard, as were the guardrail transitions and end treatments for the north approach. The 1995 bridge inspection report recommended that the bridge be replaced, due to the condition of both the bridge's substructure and superstructure.⁶

The 1997 inspection report stated that the deterioration had continued to progress since the 1995 inspection report. For example, the 12-foot long crack on the inboard face of the downstream arch had lengthened to 20 feet since 1995. It was noted that the bridge has a deficient load-carrying capacity, and is posted for only 10 tons. The bridge is posted as a single-lane crossing, due to its narrow roadway width. This report noted that it was likely that the cost to rehabilitate the bridge will exceed the economic benefit of such an action, and recommended that the bridge be replaced.⁷

In addition, three concrete cores were taken from the Clopper Road Bridge in 1993. This sampling revealed that the coarse aggregate was generally less than 1/2" in maximum dimension, which is a relatively small aggregate mix for such a large concrete structure. The use of this small aggregate indicates either a substandard mix when the bridge was constructed, or that a large percentage of the bridge's concrete is the result of previous repairs. This sampling also revealed a high chloride content in the concrete, which, when present within the concrete matrix, can cause corrosion in the reinforcing steel. This corrosion causes the reinforcing steel to expand, resulting in tensile stresses that exceed the cracking strength of concrete, in turn causing cracks and delaminations that lead to spalling. Removing these chlorides is not feasible. The combination of the condition of the concrete core, obvious visual signs of deterioration, undeterminable capacity, and questionable durability do not give the structural engineers a great deal of confidence in the short- or long-term structural integrity of the bridge.

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⁶Washington County, Maryland, Engineering Department, "Bridge Inspection Report, Bridge No. W2521, Clopper Road over Antietam Creek," Prepared by Modjeski and Masters, Inc., 1995, pp. 2-3.

⁷Washington County, Maryland, Department of Public Works, "Draft Bridge Inspection Report, Bridge No. W-2521, Clopper Road Bridge over Antietam Creek," Prepared by KCI Technologies, 1998, pp. 4-5.

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Vicinity of Leitersburg, Washington County, Maryland**

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Telephone Interview with Cynthia Simpson, Deputy Division Chief, Project Planning Division, State Highway Administration, Maryland Department of Transportation, conducted by Laura L. Bobeczko of Robinson & Associates, Inc., November 10, 1998.

Washington County, Maryland, Engineering Department. "Bridge Inspection Report, Bridge No. W2521, Clopper Road over Antietam Creek." Prepared by Modjeski and Masters, Inc., 1995.

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PREPARED BY: Laura L. Bobeczko, Judith H. Robinson, Architectural Historians
Robinson & Associates, Inc.
1909 Que Street, NW, Third Floor
Washington, DC 20009
(202) 234-2333

DATE: July 24, 1998

CONCURRENCE INFORMATION

This structure is:

☐ eligible

☐ not eligible

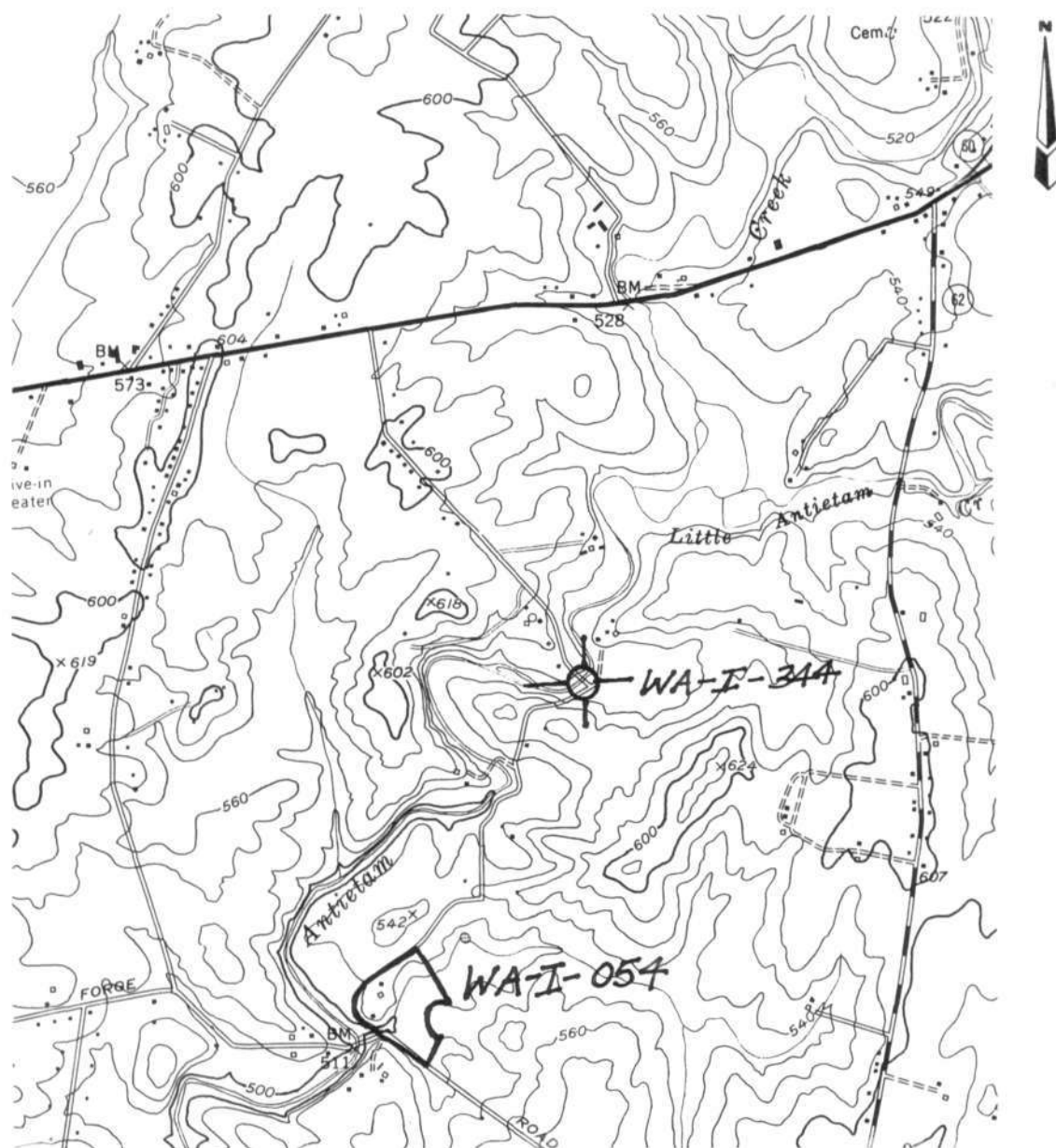
for listing in the Maryland Historic Sites Inventory and the National Register of Historic Places.

Approved by the Federal Preservation Officer

Concurrence of State Preservation Officer

WA-I-344

Page 9

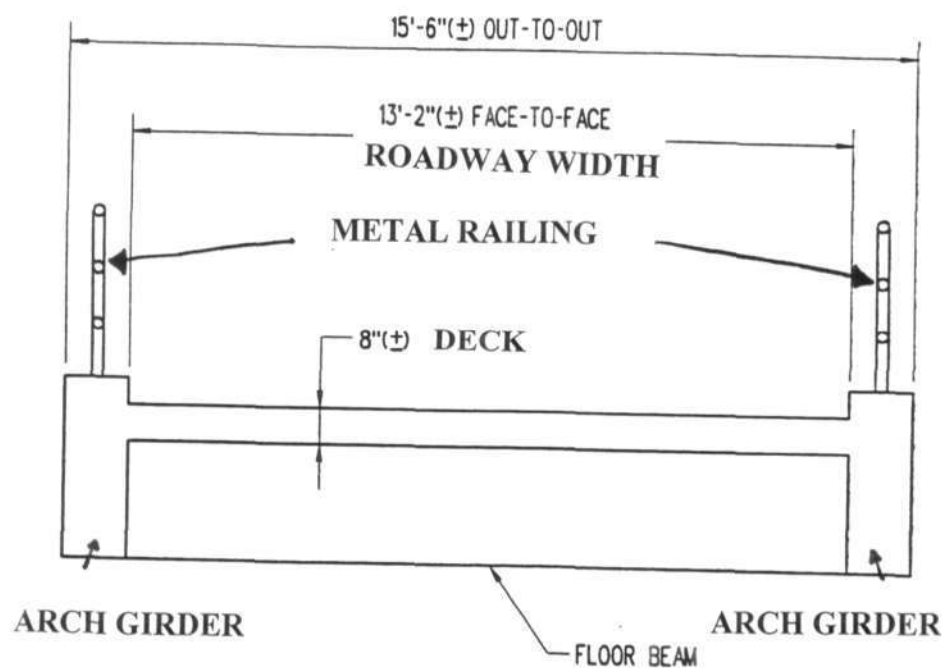


Clopper Road Bridge over Antietam Creek - WA-I-344
Old Forge Farm Historic District - WA-I-054 (1979 National Register Boundaries)
Vicinity of Leitersburg, Washington County, Maryland
USGS Map, Hagerstown, MD, PA Quadrangle
1953, Photorevised 1985
7.5 minute series

AMENDMENT TO MARYLAND HISTORICAL TRUST
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STATE HISTORIC SITES INVENTORY FORM
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Clopper Road Bridge over Antietam Creek
Vicinity of Leitersburg, Washington County, Maryland

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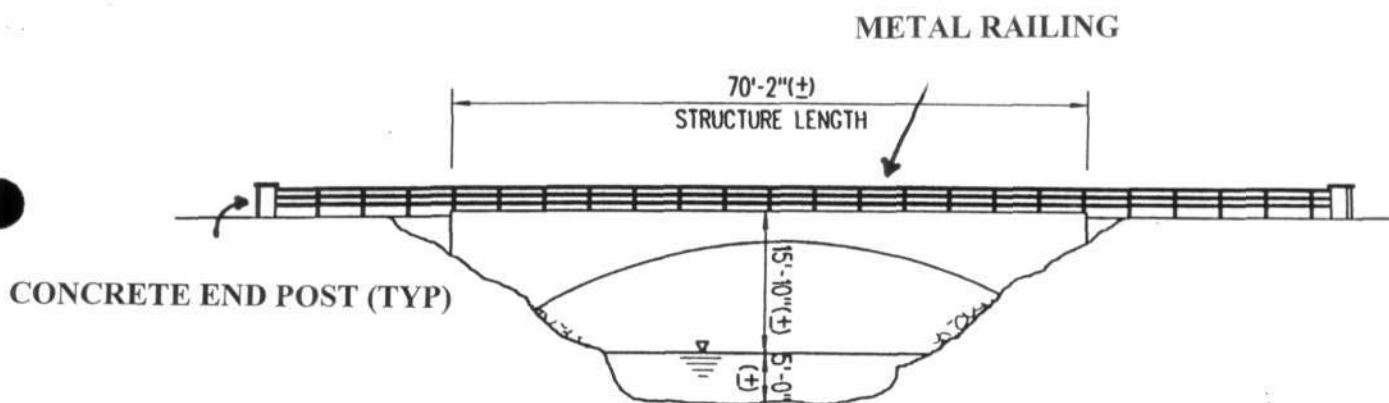
SECTION

Section Drawing of Clopper Road Bridge
from 1997 Bridge Inspection Report

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STATE HISTORIC SITES INVENTORY FORM
AND DETERMINATION OF ELIGIBILITY REPORT
Clopper Road Bridge over Antietam Creek
Vicinity of Leitersburg, Washington County, Maryland

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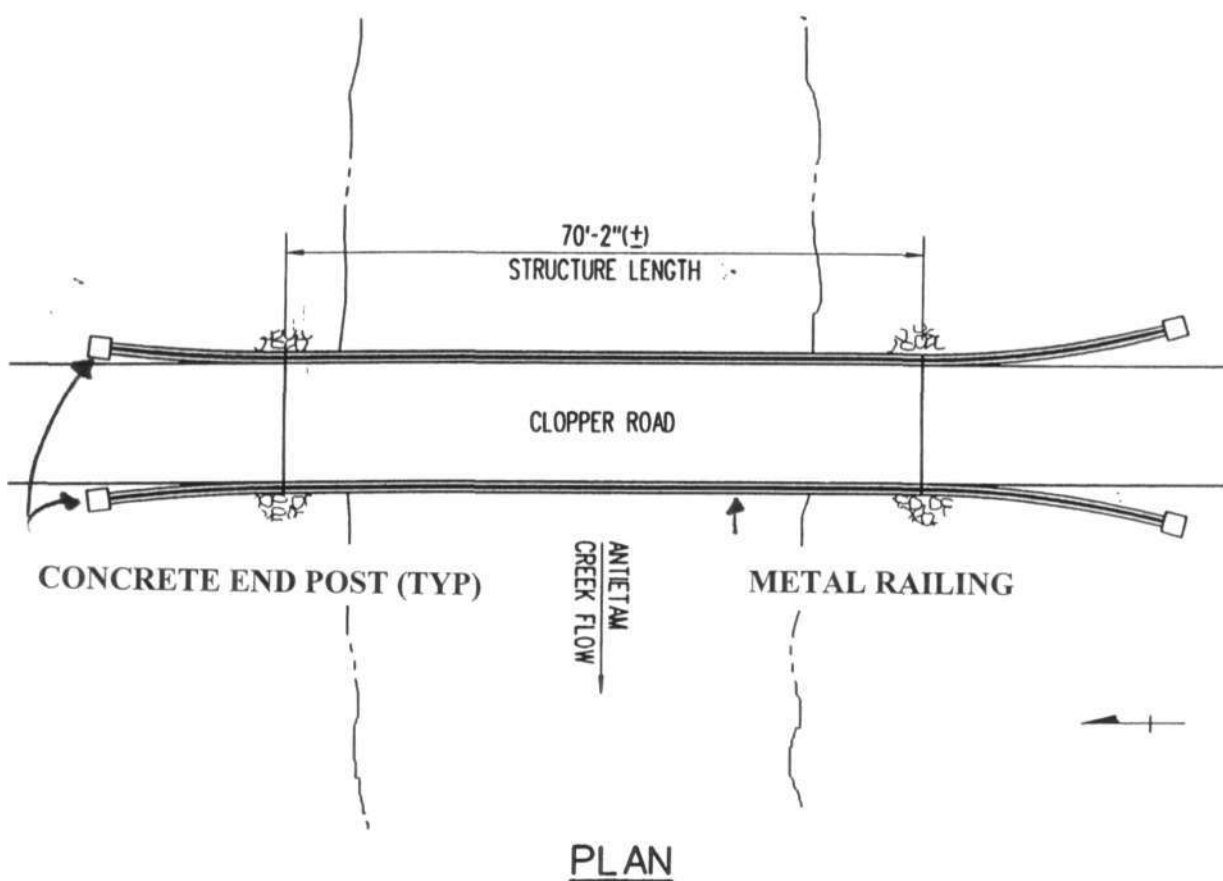
DOWNSTREAM ELEVATION

Downstream Elevation Drawing of Clopper Road Bridge
from 1997 Bridge Inspection Report

AMENDMENT TO MARYLAND HISTORICAL TRUST
MARYLAND INVENTORY OF HISTORIC PROPERTIES
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Clopper Road Bridge over Antietam Creek
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Plan Drawing of Clopper Road Bridge
from 1997 Bridge Inspection Report



Clopper Road Bridge over

Antietam Creek - WA-I-344

Vicinity of Leitesburg, Washington County, MD

Photo by Stephanie S. Fzell, March 1998

Negative at MD SHPO

View of west elevation of bridge, facing northeast

Photo 1 of 11



Clopper Road Bridge over
Antietam Creek - WA-I-314

Vicinity of Leistersburg, Washington County, Maryland

Photo by Stephanie S. Felt, March 1998

Negative at MD SHPC

View of east elevation of bridge facing northwest

Photo 2 of 11

BUILT BY

NELSON MERYDITH CO

CHAMBERSBURGH PA

1908

Clopper Road Bridge over
Antietam Creek W. I-344

Vicinity of Leifersburg, Washington County, MD

Photo by Stephanie S. Foell, March 1998

Negative at MDSHPC

View of plaque on southwest concrete pier,
facing north

Photo 3 of 11

P. NICH

S. ZELLER

COMMISSIONER

M. HURLEY

W. G. CUSHWA

E. WAGAMAN

CLERK

E. PIPER

CO. SURVEYOR

P. HAGNER

ATTY

Clopper Road Bridge over
Antietam Creek. WA-I-344
Vicinity of Leifersburg, Washington
County, MD
Photo by Stephanie S. Feil,
March 1998
Negative at MDSMR
View of piling on southeast
concrete pier, facing north
Photo 1 of 11



Clopper Road Bridge over

Antietam Creek - WA-2.344

Vicinity of Leistersburg, Washington County, MD

Photo by Stephanie S. Feell, Moick 1998

Negative at MDSTPC

View of north approach, facing south

Photo 5 of 11



Clopper Road Bridge over

Annetam Creek - WA-I-344

Vicinity of Leidersburg, Washington County, MD

Photo by Stephanie S Feell, March 1998

Negative at MDSHPO

View of south approach, facing north

Photo 6 of 11



Clopper Road Bridge over
Antietam Creek - Vol. I - 344
Vicinity of Leistersburg, Westington County, MD
Photo by Stephanie S. Foll, March 1998
Negative at MD SHPO
View of west elevation of bridge,
facing southeast
Photo 7 of 11



Clopper Road Bridge over
Antietam Creek - WA-I-344

Vicinity of Leitesburg, Washington County, MD

Photo by Stephanie S. Feell, March 1998

Negative at MD SHPO

Detail of concrete deterioration on
west elevation of bridge, facing southeast

Photo 8 of 11



Clopper Road Bridge Creek
Antietam Creek WA-I-344

Vicinity of Leithersburg, Washington County, MD

Photo by Stephanie S Foor, March 1998

Negative at FWSHC

Detail of curb deterioration on east
elevation of bridge, facing east

Figure 9 of 11



Clopper Road Bridge over

Antietam Creek - WA-J-344

Vicinity of Leistersburg, Westington County, MD

Photo by Stephanie S. Fuell, March 1998

Negative at MD SHPC

Detail of curb deterioration on west
elevation of bridge, facing west

Photo 10 of 11



Clapper Road Bridge Creek

Antietam Creek - WA-I-314

Vicinity of Leifersburg, Washington County, MD

Photo by Stephanie S. Foell, March 1998

Negative at MDSTPC

Detail of curb deterioration on west
elevation of bridge, facing west

Photo 11 of 11

MARYLAND HISTORICAL TRUST WORKSHEET

NOMINATION FORM
for the
NATIONAL REGISTER OF HISTORIC PLACES, NATIONAL PARKS SERVICE

SEE INSTRUCTIONS

1. NAME				
COMMON: Clopper Road Bridge				
AND/OR HISTORIC:				
2. LOCATION				
STREET AND NUMBER: Clopper Road and Antietam Creek				
CITY OR TOWN: Leitersburg vicinity				
STATE: Maryland		COUNTY: Washington		
3. CLASSIFICATION				
CATEGORY (Check One)		OWNERSHIP		ACCESSIBLE TO THE PUBLIC
<input type="checkbox"/> District <input type="checkbox"/> Building <input type="checkbox"/> Site <input checked="" type="checkbox"/> Structure <input type="checkbox"/> Object		<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Both		Public Acquisition: <input type="checkbox"/> In Process <input type="checkbox"/> Being Considered
				<input type="checkbox"/> Occupied <input type="checkbox"/> Unoccupied <input type="checkbox"/> Preservation work in progress
PRESENT USE (Check One or More as Appropriate)				
<input type="checkbox"/> Agricultural <input type="checkbox"/> Commercial <input type="checkbox"/> Educational <input type="checkbox"/> Entertainment		<input type="checkbox"/> Government <input type="checkbox"/> Industrial <input type="checkbox"/> Military <input type="checkbox"/> Museum		<input type="checkbox"/> Park <input type="checkbox"/> Private Residence <input type="checkbox"/> Religious <input type="checkbox"/> Scientific
		<input checked="" type="checkbox"/> Transportation <input type="checkbox"/> Other (Specify) _____		<input type="checkbox"/> Comments _____ _____ _____
4. OWNER OF PROPERTY				
OWNER'S NAME: Board of County Commissioners of Washington County				
STREET AND NUMBER: Washington County Court House				
CITY OR TOWN: Hagerstown		STATE: Maryland		
5. LOCATION OF LEGAL DESCRIPTION				
COURTHOUSE, REGISTRY OF DEEDS, ETC.:				
STREET AND NUMBER:				
CITY OR TOWN:		STATE:		
Title Reference of Current Deed (Book & Pg. #):				
6. REPRESENTATION IN EXISTING SURVEYS				
TITLE OF SURVEY:				
DATE OF SURVEY: <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Local				
DEPOSITORY FOR SURVEY RECORDS:				
STREET AND NUMBER:				
CITY OR TOWN:		STATE:		

WA-I-344

7. DESCRIPTION			
CONDITION	(Check One)		
	<input type="checkbox"/> Excellent	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Fair
	<input type="checkbox"/> Deteriorated	<input type="checkbox"/> Ruins	<input type="checkbox"/> Unexposed
	(Check One)		(Check One)
	<input type="checkbox"/> Altered	<input checked="" type="checkbox"/> Unaltered	<input type="checkbox"/> Moved
	<input checked="" type="checkbox"/> Original Site		
DESCRIBE THE PRESENT AND ORIGINAL (if known) PHYSICAL APPEARANCE			
<p>This bridge carries Clopper Road across the Antietam Creek, about one mile south of Md. Route 60, the Leitersburg Pike, in Washington County.</p> <p>The bridge is constructed of reinforced concrete with a single, broad segmental arch. A plaque set in the west end of its south wall records the builder as the Nelson Merydith Co. of Chambersburgh and the date as 1908. The bridge has a low profile, keeping the road nearly level as it crosses the Antietam. The concrete walls rise slightly above the road bed and are topped with iron railings. The bridge appears to be in good condition and is open to daily traffic on a small road which is not heavily traveled.</p>			

SEE INSTRUCTIONS

8. SIGNIFICANCE

PERIOD (Check One or More as Appropriate)

- ☐ Pre-Columbian ☐ 16th Century ☐ 18th Century ☒ 20th Century
☐ 15th Century ☐ 17th Century ☐ 19th Century

SPECIFIC DATE(S) (If Applicable and Known) 1908

AREAS OF SIGNIFICANCE (Check One or More as Appropriate)

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> Aboriginal | <input type="checkbox"/> Education | <input type="checkbox"/> Political | <input type="checkbox"/> Urban Planning |
| <input type="checkbox"/> Prehistoric | <input checked="" type="checkbox"/> Engineering | <input type="checkbox"/> Religion/Philosophy | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> Historic | <input type="checkbox"/> Industry | <input type="checkbox"/> Science | _____ |
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Invention | <input type="checkbox"/> Sculpture | _____ |
| <input checked="" type="checkbox"/> Architecture | <input type="checkbox"/> Landscape | <input type="checkbox"/> Social/Humanitarian | _____ |
| <input type="checkbox"/> Art | <input type="checkbox"/> Architecture | <input type="checkbox"/> Theater | _____ |
| <input type="checkbox"/> Commerce | <input type="checkbox"/> Literature | <input checked="" type="checkbox"/> Transportation | _____ |
| <input type="checkbox"/> Communications | <input type="checkbox"/> Military | | |
| <input type="checkbox"/> Conservation | <input type="checkbox"/> Music | | |

STATEMENT OF SIGNIFICANCE

The Clopper Road bridge over the Antietam Creek is significant for its architecture, for the engineering skills it reflects and as an aid to transportation in Washington County since 1908.

This bridge is one of four concrete arched structures known to be in existence in Washington County. All were built during the first decade of the twentieth century and have served daily traffic since that time. The structures were built by the Nelson Bridge Company or the Nelson Merydith Company of Chambersburg, Pa.

SEE INSTRUCTIONS

9. MAJOR BIBLIOGRAPHICAL REFERENCES

10. GEOGRAPHICAL DATA

LATITUDE AND LONGITUDE COORDINATES DEFINING A RECTANGLE LOCATING THE PROPERTY				OR	LATITUDE AND LONGITUDE COORDINATES DEFINING THE CENTER POINT OF A PROPERTY OF LESS THAN TEN ACRES			
CORNER	LATITUDE				LONGITUDE			
	Degrees	Minutes	Seconds		Degrees	Minutes	Seconds	
NW	°	'	"		°	'	"	
NE	°	'	"		°	'	"	
SE	°	'	"		°	'	"	
SW	°	'	"		°	'	"	

APPROXIMATE ACREAGE OF NOMINATED PROPERTY:

Acreage Justification:

SEE INSTRUCTIONS

11. FORM PREPARED BY

NAME AND TITLE:

Paula Stoner Dickey, Consultant

ORGANIZATION

Washington County Historical Sites Survey

DATE

May, 1975

STREET AND NUMBER:

Court House Annex

CITY OR TOWN:

Hagerstown

STATE

Maryland

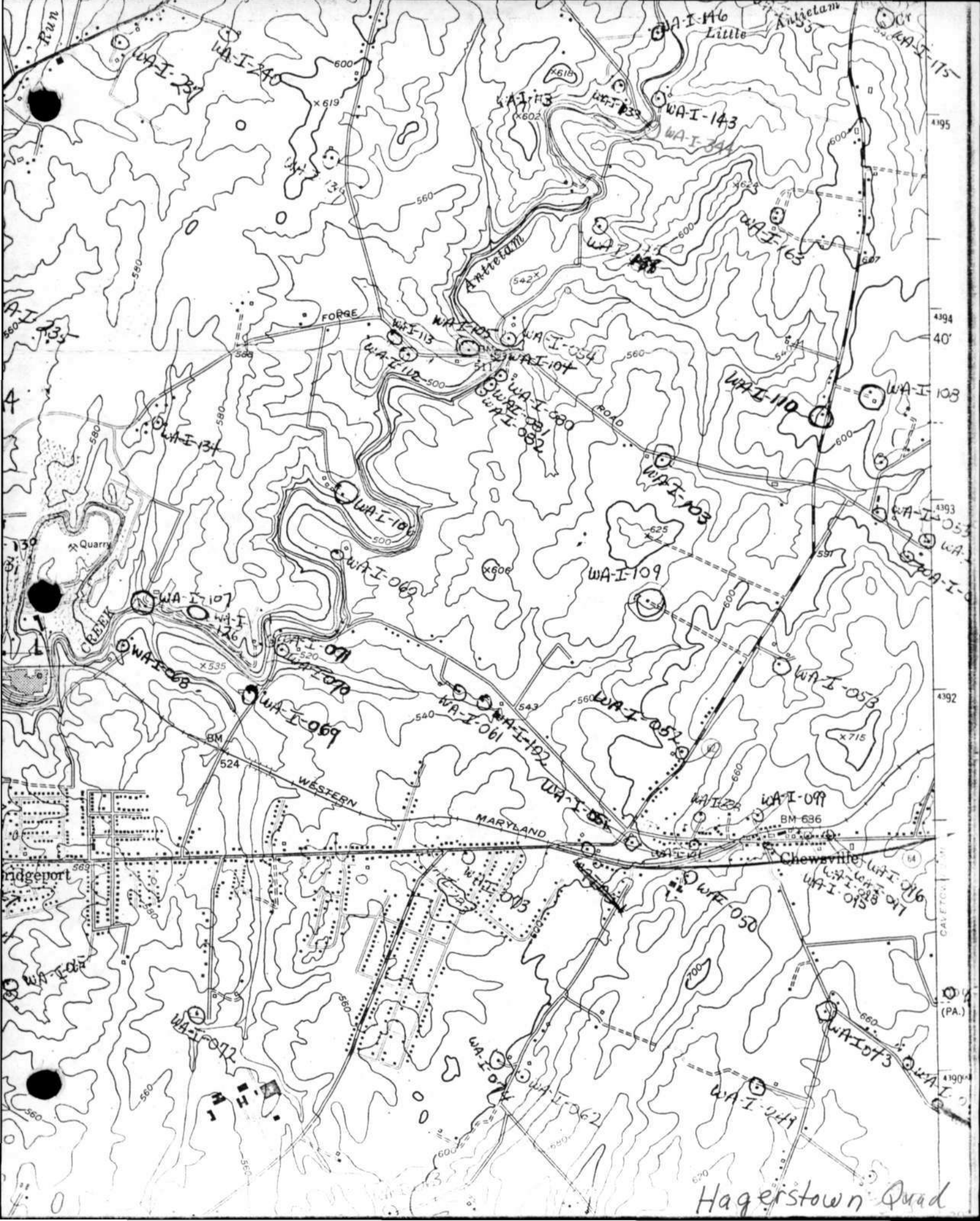
12.

State Liaison Officer Review: (Office Use Only)

Significance of this property is:

National ☐ State ☐ Local ☐

Signature





WA-T-344

S.

March, 1975

PAULA STONER DICKEY
CONSULTANT, WASHINGTON CO.
HISTORICAL SITES SURVEY



WA-I-349

Date Stone

March 1975

PAULA STONER DICKEY
CONSULTANT, WASHINGTON CO.
HISTORICAL SITES SURVEY